Serial No.09/783,008 HP Docket No: 10003492-1

CLAIM AMENDMENTS

- 1. (Currently Amended) A data storage device comprising:
 a storage medium;
 nanometer-scaled data storage areas in the storage medium;
 an energy-emitting tip positioned in close proximity to the storage medium;
- a fluid medium positioned between the energy-emitting tip and the storage medium wherein the fluid medium comprises a ferrofluid; and particles contained in the fluid medium.
- 2. (Original) The data storage device of claim 1, wherein the energy-emitting tip emits electrons.
- 3. (Original) The data storage device of claim 1, wherein the energy-emitting tip emits thermal energy.

Cancel claim 4.

- 5. (Original) The data storage device of claim 1, wherein the fluid medium comprises a high-dielectric fluid.
- 6. (Original) The data storage device of claim 1, wherein the particles comprise a material chosen from the group consisting of electrically conducting, dielectric and paraelectric materials.
- 7. (Original) The data storage device of claim 1, wherein the particles comprise a magnetic material.
- 8. (Original) The data storage device of claim 1, wherein the particles form a bridge between the tip and the storage medium.
- 9. (Currently Amended) A data storage device comprising:
 a storage medium;
 nanometer-scaled data storage areas in the storage medium;
 an energy-emitting tip positioned in close proximity to the storage medium; and

molecules positioned between the energy-emitting tip and the storage medium wherein the molecules are at leastpartially immersed in a fluid medium.

10. (Original) The data storage device of claim 9, wherein the energy-emitting tip emits electrons.

Serial No.09/783,008 HP Docket No: 10003492-1

- 11. (Original) The data storage device of claim 9, wherein the energy-emitting tip thermal energy.
- 12. (Currently Amended) The data storage device of claim 9, wherein <u>each of</u> the molecules <u>eomprises</u> a one-dimensional conductor <u>molecules</u> <u>molecules</u>.
- 13. (Currently Amended) The data storage device of claim 12, wherein the one-dimensional conductor molecules molecule emprise comprises at least one type of molecule chosen from the group consisting of diols, polymers, surfactants, nanotubes and polymers.
- 14. (Currently Amended) The data storage device of claim 9, wherein the eonductive molecules comprise conductive molecules attached to the storage medium.
- 15. (Currently Amended) A method of data storage comprising: providing a storage medium comprising nanometer-scaled data storage area;

positioning an energy-emitting tip in close proximity to the storage

medium;

guiding energy emitted from the energy-emitting tip to the storage area wherein the guiding step comprises channeling the energy emitted through particle in a fluid medium between the storage medium and the energy-emitting tip wherein the fluid medium comprises a ferrofluid;

altering a state of the storage areas with the emitted, guided energy.

- 16. (Original) The method of claim 15, wherein the guiding step comprises channeling the energy emitted through conductor molecules positioned between the storage medium and energy-emitting tip.
- 17. (Currently Amended) The method of claim 16, wherein the guiding step comprises using conductor molecules that wherein each of the conductor molecules comprises one-dimensional conductor molecules.

Cancel claim 18.

19. (Currently Amended) The method of claim 15 18, wherein the guiding step comprises using particles that form a bridge between the storage medium and the energy emitting tip.

Cancel claim 20.